Please cancel claims 3, 14 and 25-33 without prejudice.

1.     (CURRENTLY AMENDED) A method for encoding K>1 pictures of video, comprising the steps of:

(a)    dividing each of said K pictures into an m>1 row by an n>1 column array of coding units; ~~and~~

5      (b)    selecting a pseudo random pattern of said coding units for refreshing during each of said K pictures, each of said pseudo random patterns selected during any given one of said K pictures including a sequence of one or more of said coding units<u>;</u> <u>and</u>

10     <u>(c)    during at least one of said K pictures, selecting a</u> <u>plurality of said sequences of a fixed length q with said sequences</u> <u>being offset from each other by q•K,</u>

wherein (i) each of said coding units selected for refreshing during a $k^{th}$ picture of said K pictures occupy different

15     positions than each of said coding units selected for refreshing during a preceding one of a $1^{st}$ to a $(k-1)^{th}$ pictures of said K pictures and (ii) each of said positions from said K pictures is selected for refreshing once over said K pictures.


2.     (PREVIOUSLY PRESENTED) The method of claim 1, wherein said coding units are macroblocks and said positions are macroblock positions.

3. (CANCELED)

4. (PREVIOUSLY PRESENTED) The method of claim 1, further comprising the steps of:

initializing a length counter to a first constant and a frequency counter to a second constant; and

5         during each of said K pictures:

if said length counter is equal to a fixed length q then (i) setting said length counter to said first constant, (ii) resetting said frequency counter to said second constant minus one if said frequency counter equals K and (iii) incrementing said

10   frequency counter;

counting a next to-be-processed coding unit of said coding units in sequential order and incrementing said length counter for said next to-be-processed coding unit; and

selecting said next to-be-processed coding unit for

15   refreshing if said frequency counter is said second constant.

5. (PREVIOUSLY PRESENTED) The method of claim 1, wherein a fixed length q for a plurality of said sequences is (i) an exact divisor of a number of said coding units in each of said K pictures, (ii) less than said number of said coding units in each

5   of said K pictures and (iii) greater than one.

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6. (ORIGINAL) The method of claim 5 wherein K is free of a common divisor with m•n/q, other than 1.

7. (PREVIOUSLY PRESENTED) The method of claim 4, wherein said K pictures are a plurality of field pictures of a plurality of interlaced frames, each of said coding units is an interlaced field coding unit and said interlaced field coding units from a single given frame of said interlaced frames are refreshed during sequential pictures k and k+1 of said K pictures, the method further comprising the steps of:

if a last of said coding units at a last of said field pictures of one of said interlaced frames is reached, setting a frame counter equal to said frequency counter; and

if said last coding unit is reached, setting said frequency counter equal to said frame counter.

8. (PREVIOUSLY PRESENTED) The method of claim 1, wherein each of said K pictures is a field picture of an interlaced frame, each of said coding units is an interlaced field coding unit and said interlaced field coding units from a single given frame of said interlaced frames are refreshed during sequential pictures k and k+1 of said K pictures.

9. (PREVIOUSLY PRESENTED) The method of claim 1, wherein said pseudo random patterns are decorrelated among said K pictures.

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10. (PREVIOUSLY PRESENTED) The method of claim 9, wherein a starting and an ending coding unit of said coding units in each of a plurality of said sequences within each of said K pictures are located in different columns of said array over successive ones of said K pictures.

11. (PREVIOUSLY PRESENTED) The method of claim 9, wherein (i) at least a first one of said sequences starts at a first position of said positions which is offset from a leftmost position of said positions in a first row of said array containing a beginning of said first sequence by one or more of said positions and (ii) a second one of said sequences ends at a second position of said positions which is offset from a rightmost position of said positions in a second row of said array containing an end of said second sequence by one or more of said positions.

12. (CURRENTLY AMENDED) An apparatus comprising:

a source for supplying K>1 pictures of video, each divided into an m>1 row by an n>1 column array of coding units; and

an inter/intra decision circuit for selecting a pseudo random pattern of said coding units for refreshing during each of said K pictures, each of said pseudo random patterns selected during any given one of said K pictures including a sequence of one or more of said coding units,

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wherein (i) each of said coding units selected for refreshing during a k$^{th}$ picture of said K pictures occupy different positions than each of said coding units selected for refreshing during a preceding one of a 1$^{st}$ to a (k-1)$^{th}$ pictures of said K pictures~~,~~ ~~and~~ (ii) each of said positions from said K pictures is selected for refreshing once over said K pictures <u>and (iii) said inter/intra decision circuit is also for, during at least one of said K pictures, selecting a plurality of said sequences of a fixed length q with said sequences being spaced from each other by q•K of said positions</u>.


13.    (PREVIOUSLY PRESENTED) The apparatus of claim 12, wherein said coding units are macroblocks and said positions are macroblock positions.


14.    (CANCELED)


15.    (CURRENTLY AMENDED) The apparatus of claim 12, wherein the inter/intra decision circuit is also for:

initializing a length counter to a first constant and a frequency counter to a second constant; and

during each of said K ~~frames~~ <u>pictures</u>:

if said length counter is equal to q then (i) setting said length counter to said first constant, (ii) resetting the frequency counter to the second constant minus one, if the

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frequency counter equals K and (iii) incrementing said frequency counter;

counting a next to-be-processed coding unit of said coding units in sequential order and incrementing said length counter for said next to-be-processed coding unit; and

selecting said next to-be-processed coding unit for refreshing if said frequency counter is said second constant.


16. (PREVIOUSLY PRESENTED) The apparatus of claim 12, wherein a fixed length q for a plurality of said sequences is (i) an exact divisor of a number of said coding units in each of said K pictures, (ii) less than said number of said coding units in each of said K pictures and (iii) greater than one.


17. (ORIGINAL) The apparatus of claim 16 wherein K is free of a common divisor with $m \cdot n/q$, other than 1.


18. (PREVIOUSLY PRESENTED) The apparatus of claim 15, wherein each of said K pictures is a field picture of an interlaced frame, each of said coding units is an interlaced field coding unit and said interlaced field coding units from a single given frame of said interlaced frames are refreshed during sequential pictures k and k+1 of said K pictures, wherein said inter/intra decision circuit is also for:

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if a last of said coding units at a last of said field
pictures of one of said interlaced frames is reached, setting a
frame counter equal to said frequency counter; and

if said last coding unit is reached, setting said
frequency counter equal to said frame counter.


19. (PREVIOUSLY PRESENTED) The apparatus of claim 12,
wherein each of said K pictures is a field picture of an interlaced
frame, each of said coding units is an interlaced field coding unit
and said interlaced field coding units from a single given frame of
said interlaced frames are refreshed during sequential pictures k
and k+1 of said K pictures.


20. (PREVIOUSLY PRESENTED) The apparatus of claim 12,
wherein said pseudo random patterns are decorrelated among said K
pictures.


21. (PREVIOUSLY PRESENTED) The apparatus of claim 20,
wherein a starting and an ending coding unit of said coding units
in each of a plurality of said sequences within each of said K
pictures are located in different columns of said array over
successive ones of said K pictures.


22. (PREVIOUSLY PRESENTED) The apparatus of claim 20,
wherein (i) at least a first one of said sequences starts at a
first position of said positions which is offset from a leftmost

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position of said positions in a first row of said array containing

5       a beginning of said first sequence by one or more of said positions

and (ii) a second one of said sequences ends at a second position

of said positions which is offset from a rightmost position of said

positions in a second row of said array containing an end of said

second sequence by one or more of said positions.


23.    (CANCELED)


24.    (CURRENTLY AMENDED) A storage medium for storing a

video signal <u>configured to execute the steps of claim 1</u> ~~comprising~~

~~K>1 pictures each being divided into an m>1 by an n>1 array of~~

~~coding units, each of said K pictures including a pseudo random~~

5       ~~pattern of said coding units being refreshed, each of said pseudo~~

~~random patterns during any given one of said K pictures including~~

~~a sequence of one or more of said coding units, wherein (i) each of~~

~~said coding units selected for refreshing during a k<sup>th</sup> picture of~~

~~said K pictures occupy different positions than each of said coding~~

10      ~~units selected for refreshing during a preceding one of a 1<sup>st</sup> to a~~

~~(k-1)<sup>th</sup> pictures of said K pictures and (ii) each of said positions~~

~~from said K pictures is selected for refreshing once over said K~~

~~pictures.~~


25.    (CANCELED)


26.    (CANCELED)

27.    (CANCELED)

28.    (CANCELED)

29.    (CANCELED)

30.    (CANCELED)

31.    (CANCELED)

32.    (CANCELED)

33.    (CANCELED)

34.    (NEW) A method for encoding K>1 pictures of video, comprising the steps of:

(a)    dividing each of said K pictures into an m>1 row by an n>1 column array of coding units;

5    (b)    selecting a pseudo random pattern of said coding units for refreshing during each of said K pictures, each of said pseudo random patterns selected during any given one of said K pictures including a sequence of one or more of said coding units;

(c)    initializing a length counter to a first constant

10    and a frequency counter to a second constant; and

(c)    during each of said K pictures:

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if said length counter is equal to a fixed length q then (i) setting said length counter to said first constant, (ii) resetting said frequency counter to said second constant minus one if said frequency counter equals K and (iii) incrementing said frequency counter;

counting a next to-be-processed coding unit of said coding units in sequential order and incrementing said length counter for said next to-be-processed coding unit; and

selecting said next to-be-processed coding unit for refreshing if said frequency counter is said second constant,

wherein (i) each of said coding units selected for refreshing during a $k^{th}$ picture of said K pictures occupy different positions than each of said coding units selected for refreshing during a preceding one of a $1^{st}$ to a $(k-1)^{th}$ pictures of said K pictures and (ii) each of said positions from said K pictures is selected for refreshing once over said K pictures.

35.   (NEW) An apparatus comprising:

a source for supplying K>1 pictures of video, each divided into an m>1 row by an n>1 column array of coding units;

an inter/intra decision circuit for selecting a pseudo random pattern of said coding units for refreshing during each of said K pictures, each of said pseudo random patterns selected during any given one of said K pictures including a sequence of one or more of said coding units,

wherein (i) each of said coding units selected for refreshing during a $k^{th}$ picture of said K pictures occupy different positions than each of said coding units selected for refreshing during a preceding one of a $1^{st}$ to a $(k-1)^{th}$ pictures of said K pictures, (ii) each of said positions from said K pictures is selected for refreshing once over said K pictures, and (iii) said inter/intra decision circuit is for:

initializing a length counter to a first constant and a frequency counter to a second constant; and

during each of said K pictures:

if said length counter is equal to q then (i) setting said length counter to said first constant, (ii) resetting the frequency counter to the second constant minus one, if the frequency counter equals K and (iii) incrementing said frequency counter;

counting a next to-be-processed coding unit of said coding units in sequential order and incrementing said length counter for said next to-be-processed coding unit; and

selecting said next to-be-processed coding unit for refreshing if said frequency counter is said second constant.

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